

ABSTRACT

A hard disk drive (HDD) included in an HDD navigation system is shared with the second system without the necessity of modifying the navigation system. An HDD control unit 1 is connected to each of a navigation system 2, an HDD 3, and the second system 4. Data read from the HDD is held in a buffer RAM 11. For transfer of data to the second system, a decompression unit 13 decompresses the data and transmits the resultant data. When the command to access the HDD is issued concurrently from the navigation system and second system alike, the commands are arbitrated through time sharing. Transfer to the second system is executed as a top priority, whereby a break in data, such as in audio data, is prevented.